

Title (en)

Magnetic or electrostatic pivot of a clock mobile

Title (de)

Magnetische oder elektrostatische Drehung eines drehbaren Bauteils einer Uhr

Title (fr)

Pivotement magnétique ou électrostatique de mobile d'horlogerie

Publication

EP 2762985 B1 20180404 (FR)

Application

EP 13153885 A 20130204

Priority

EP 13153885 A 20130204

Abstract (en)

[origin: EP2762985A1] The subassembly has a horology runner (2) e.g. tourbillon cage, with annular peripheral surfaces (31, 32) rotating around a pivoting axis (D) of the runner. A guiding device (1) pivots about a theoretical axis (D0) of a horology mechanism. One of the peripheral surfaces is magnetized or electrified. Surfaces (11) are magnetized or electrified opposite to the peripheral surface in order to repel the peripheral surface at an interface (41) and to maintain the runner in axial levitation according to direction of the theoretical axis. An independent claim is also included for a clockwork movement.

IPC 8 full level

G04C 3/06 (2006.01); **F16C 39/06** (2006.01); **G04B 1/16** (2006.01); **G04B 17/28** (2006.01)

CPC (source: CH EP US)

F16C 32/0431 (2013.01 - EP US); **G04B 1/16** (2013.01 - EP US); **G04B 5/184** (2013.01 - CH EP US); **G04B 17/285** (2013.01 - CH EP US); **G04B 31/00** (2013.01 - CH EP US); **G04C 3/064** (2013.01 - EP US); **G04C 5/005** (2013.01 - EP US); **F16C 2370/00** (2013.01 - EP US)

Citation (examination)

DE 3940769 A1 19900613 - NAT SPACE DEV AGENCY [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2762985 A1 20140806; **EP 2762985 B1 20180404**; CH 707582 A2 20140815; CH 707582 B1 20181214; CN 104969132 A 20151007; CN 104969132 B 20170811; EP 2976685 A2 20160127; EP 2976685 B1 20180314; HK 1215884 A1 20160923; JP 2016515194 A 20160526; JP 6059366 B2 20170111; US 2015362892 A1 20151217; US 9778619 B2 20171003; WO 2014117891 A2 20140807; WO 2014117891 A3 20141023; WO 2014117891 A4 20141113

DOCDB simple family (application)

EP 13153885 A 20130204; CH 3942013 A 20130204; CN 201380072132 A 20131210; EP 13802068 A 20131210; EP 2013076073 W 20131210; HK 16103826 A 20160405; JP 2015555602 A 20131210; US 201314764041 A 20131210